



Materials Specifications & Virginia Test Methods (VTM's) 2013 Fall Asphalt Conference

October 8, 2013

Rob Crandol, P.E.

Statewide Asphalt Program Manager

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF HIGHWAYS

RICHMOND

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February 5, 1943.

To the State Highway Personnel:

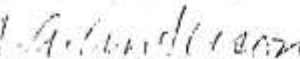
A number of employees of the Department have become agitated over the possible results of the reported actions of the War Manpower Commission as given in the daily papers.

Quite a number seem to think that they must immediately begin to look for jobs in some war industry on the basis that if they do not protect their interests by doing this eventually they may be drafted for war industry without any opportunity for choice of work.

As far as is known at the present time there will be a classification set up to define essential industry or occupation and it is confidently assumed that the important work of the Highway Department on roads which constitute one of the major transportation facilities of the country will be classed as essential occupation.

Every employee of the Highway Department is advised to take no hasty action until definite information has been secured, at which time the Department will send out the necessary instructions and advice to all the personnel in the Department.

Yours very sincerely,



J. A. Anderson, Commissioner.

A:V.

- **We have work to do!**
- **Our work is essential !**
- **Take no hasty actions !**

Specifications



Overview - Specifications

- Volume I & II of pavement resurfacing contracts
- Section 211 **ASPHALT CONCRETE**
- Section 315 **ASPHALT CONCRETE PAVEMENT**
- Special provision(s) & other items

Specifications – Volume 1 & 2

Volume 1 & 2

Pavement “schedule” resurfacing contracts

- **Volume 1** Contract specific – C-7, bid items, specific needs
 - **Volume 2** Standard provisions for statewide “schedules”
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- ***Takeaway: The decision has been made to make no across-the-board, programmatic changes to these provisions for this year.***

Specifications – Section 211

Section 211 ASPHALT CONCRETE

- Curb mix allowance Use of SM-9.5 in specific cases
- Goal: to replace the need/requirement for specialized mix(es), with fibers, in situations when more conventional mixes will be acceptable and meet needs.
- ***Takeaway: Finalize decisions, target spring 2014 contracts for inclusion where appropriate.***

Specifications – Section 315

- **Section 315** **ASPHALT CONCRETE PAVEMENT**
 - **Warm Mix temperatures** **Add minimum of 200°F**
- ***Takeaway: Finalize decisions, target spring 2014 contracts for inclusion where appropriate.***

Specifications – THMACO

- Special Provisions & other items “THMACO”
- Thin Hot Mix Asphalt Concrete Overlay
 - To date in Virginia this has been a single-source, proprietary product & process.
 - VDOT and industry collaborating to create a special provision that will allow for more/different ways of producing an acceptable “THMACO” product .
 - Goal : Increase contractor opportunities to improve cost and operational efficiencies.
- ***Takeaway: Finalize special provision, target 2014 contracts for inclusion of pilot locations where appropriate.***



INSPIRATION

GENIUS IS ONE PERCENT INSPIRATION AND 99 PERCENT PERSPIRATION,
WHICH IS WHY ENGINEERS SOMETIMES SMELL REALLY BAD.

Virginia Test Methods (VTM's)



Overview – VTM's

- **VTM 76** **Roller patterns & control strips**
- **VTM 102** **AC content & RAP correction factors**
- **VTM 126, 127 & 128** **Non-Tracking Tack Coats**

VTM's – VTM 76

Control Strip Density And Roller Pattern And Control Strip Procedure Using A Thin-Lift Nuclear Density Gauge For Asphalt Concrete Mixtures (Asphalt Lab)

- Base Mix Density Testing
- Modified VTM 76 to include the reference that was *previously removed from VTM 10* about the roller pattern and control strip densities being within $\pm 3\text{lbs}$ of each other
- ***Takeaway: Change implemented in June 2013.***

VTM's – VTM 102

Determination of Asphalt Content from Asphalt Paving Mixtures By the Ignition Oven Method (Asphalt Lab)

- Adding section 'C' RAP correction factor
 - Default correction factor will be prescribed as 0.4%
 - Option to determine actual correction factor if needed
- **Goal:** to more accurately & consistently account for the contribution of asphalt binder in RAP during the mix design process.
- ***Takeaway: Final draft under review by VDOT and industry. Expect final distribution by January 1, 2014.***¹⁴

VTM's – VTM 126, 127& 128

Non-tracking Tack test methods

- VTM 126 Laboratory acceptance (*completed*)
- VTM 127 Field evaluation (operational performance)
- VTM 128 Bond testing (*completed*)
- ***Takeaway: Reviews still underway. Decisions & implementation TBD.***

From: Shucet, Philip A.
Sent: Saturday, August 30, 2003 3:12 PM
To: Commissioner's Staff; District Administrators
Cc: Crandol, Robert
Subject: Thoughts from a RE

Rob Crandol sent me some thoughts about our current situation, including these words. I thought they were worth sharing.

~ A ship in harbor is safe, but that's not what ships are for.

~ You don't hold your own in the world by standing on guard, but by attacking and getting well hammered yourself.

~ Growth demands a temporary surrender of security

~ A decision is the action an executive must take when he has information so incomplete that the answer does not suggest itself.

~ No matter how well you perform there's always somebody of intelligent opinion who thinks it's lousy.

Philip A. Shucet
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Questions?